

# Receiving Report

Date:

Batch No:

Supplier:

Dart P/O:

**Packing Slip:**

Yes

**No**

Invoice:

Yes  
Can

No

Receipt:

**Cash**

Cr

Release Note Attached:

Yes

No

N/A

Waybill Attached:

Yes

No

N/A

Shipment Complete:

~~Yes~~

No

N/A

QC6 Inspection

*[Signature]*

42

N/A

## Work Order

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•

1000

### Discrepancies

Discrepancies						
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

**Production/Admin:**

Date \_\_\_\_\_

Received/Costing

Initial

### Location

# Purchase Order Receipt Listing

Thursday, February 23, 2012 8:57:52 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO16165 Receipt Dates from 2/23/2012 to 2/23/2012 All Line Item Types  
All Item ID/Gr/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRR Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO16165	6		M60610S.032	sf	2/17/2012	2/23/2012	192.0000	\$1.35	0.0000	0	\$259.27
CAD	No		6061 0 SHEET .032	sf	192.0000	DESI02		\$259.27	0.0000	0	
			120777								
	10		M6061T6H0.625	f	2/17/2012	2/23/2012	12.0000	\$3.74	0.0000	0	\$44.87
No			6061-T6 HexBar 625 f		12.0000	DESI02		\$44.87	0.0000	0	
			120777								
	11		M2024T3H1.375	f	2/17/2012	2/23/2012	12.0000	\$17.20	0.0000	0	\$206.42
No			2024-T3 Hex Bar 1.375"	f	12.0000	DESI02		\$206.42	0.0000	0	
			120777								
	12		M2024T3R1.250	f	2/17/2012	2/23/2012	12.0000	\$8.50	0.0000	0	\$101.95
No			2024-T3 Round Bar 1.250"	f	12.0000	DESI02		\$101.95	0.0000	0	
			120777								
	13		M2024T3R1.875	f	2/17/2012	2/23/2012	12.0000	\$15.83	0.0000	0	\$189.91
No			2024 T3 ROUND BAR 1.875	f	12.0000	DESI02		\$189.91	0.0000	0	
			120777								

Total Received Quantity: 240.0000  
Total Qty to Inspect (PO U/M): 0.0000  
Total Reject Quantity: 0.0000  
Total Receipt Value: \$802.43  
Total Balance Due Quantity: 0.0000

SHIP FROM: THYSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

SHIP TO: ( 1 )  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

Bill of Lading  
No: PEC 754013  
Ship Date 22Feb12 at 10:10 From PFW  
Probill  
Via VIM TRNASFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115 )  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

BILL OF LADING  
1) Our Order PEC-419208- 1 Your PO # 16165  
ALUMINUM SHEET 6061-0

.0320 Nom X 48.0000" X 144.0000"

Heat Number Tag No  
L03917B 39075

Quantity PCS Wt LBS  
192.00 SFT 4 87

2) Our Order PEC-419208- 2 Your PO # 16165  
ALUMINUM HEXAGON BAR 6061-T6511  
.625" X 144.0000"

Heat Number Tag No  
201200371 39001

Quantity PCS Wt LBS  
12 FT 1 5

3) Our Order PEC-419208- 3 Your PO # 16165  
ALUMINUM HEXAGON BAR 2024-T351 US1 TESTED  
1.375" X 144.0000"

Heat Number Tag No  
MA011005339 39003

Quantity PCS Wt LBS  
12 FT 1 23

4) Our Order PEC-419208- 4 Your PO # 16165  
ALUMINUM ROUND BAR 2024-T351 CF  
1.25" DIA X 144.0000"

Heat Number Tag No  
141826 39004

Quantity PCS Wt LBS  
12 FT 1 17

5) Our Order PEC-419208- 5 Your PO # 16165  
ALUMINUM ROUND BAR 2024-T351 CF  
1.875" DIA X 144.0000"

Heat Number Tag No  
MA20113157 39005

Quantity PCS Wt LBS  
12 FT 1 40

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/OST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

Ship From: **THYSSENKRUPP MATERIALS NA**  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 9057389033

**B I L L O F L A D I N G**

No: PEC 754013  
Ship Date 22Feb12 at 10:10 From PFW  
Probill  
Via VIM TRNASFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

**B I L L O F L A D I N G**

	Tags	PCS	LBS
TOTAL:	5	8	172

ADD ON TO 418885 SUR CHARGE PAID

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL 1 SKID, 1 TUBE, 3 BARS G.W. 322 LBS

ITEM (1) SKID  
ITEM (2) BAR  
ITEM (3) TUBE  
ITEM (4) BAR  
ITEM (5) BAR

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*  
\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 2 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

①

# Material Certificate



Ship To Address CHARLESTON ALUMINUM  
C/O MAIN STEEL  
781 BEDFORD ST., NW  
ATLANTA GA, 30318

Sold To Address CHARLESTON ALUMINUM  
480 FRONTAGE RD.  
GASTON SC, 29053

C & B Material #: ALFR01621

Novelis Order #: 66590403

Product No: 081251P03

Processed Date: 7/23/2011 5:02:00 PM

Customer Part 5288855

Cust P.O.: 1020-ATL

Package Net Wgt: 8.097 LBS

Package #: L03617B

Mechanical Specifications: ASTM B209-07, AMS-QQ-A-250/11-97, AMS4025L

Novelis Inc.  
1 LAPPAN'S LANE  
P.O. BOX 2000  
KINGSTON, ON, K7L 4Z5

## Test Results

Sample Location	Position	Test/Degree	Tensile Gauge	Value	UOM
BACK/ ID		ELONGATION 90 DEGREES		11.0000	%
BACK/ ID		ELONGATION 90 DEGREES		23.0000	%
BACK/ ID		ELONGATION 90 DEGREES		27.0000	%
BACK/ ID		TENSILE THICKNESS 90 DEGREES		0.0305	in
BACK/ ID		TENSILE THICKNESS 90 DEGREES		0.0307	in
BACK/ ID		TENSILE THICKNESS 90 DEGREES		0.0307	in
BACK/ ID		UTS 90 DEGREES		18.0500	ksi
BACK/ ID		UTS 90 DEGREES		37.7200	ksi
BACK/ ID		UTS 90 DEGREES		46.8000	ksi
BACK/ ID		YTS 90 DEGREES		9.3200	ksi
BACK/ ID		YTS 90 DEGREES		19.8900	ksi
BACK/ ID		YTS 90 DEGREES		42.7900	ksi
FRONT/ OD		ELONGATION 90 DEGREES		11.0000	%
FRONT/ OD		ELONGATION 90 DEGREES		25.0000	%
FRONT/ OD		ELONGATION 90 DEGREES		27.0000	%
FRONT/ OD		TENSILE THICKNESS 90 DEGREES		0.0305	in
FRONT/ OD		TENSILE THICKNESS 90 DEGREES		0.0306	in
FRONT/ OD		TENSILE THICKNESS 90 DEGREES		0.0307	in

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS

Part:

Wgt: 86.704 LB

NA - ECAD Del: 2401698598

PO: PEC - 236914

Date: 02/14/2012

*Rush D. Webb*

# Material Certificate



NOVELIS

FRONT/ OD	UTS 90 DEGREES	18.1100	KSI
FRONT/ OD	UTS 90 DEGREES	38.0200	KSI
FRONT/ OD	UTS 90 DEGREES	46.9200	KSI
FRONT/ OD	YTS 90 DEGREES	11.9600	KSI
FRONT/ OD	YTS 90 DEGREES	20.2100	KSI
FRONT/ OD	YTS 90 DEGREES	42.9100	KSI

## Chemical Composition(%)

SI	FE	CU	MN	MG	CR	NI	ZN	TI	BE	AL	EA	TT
0.5800	0.4800	0.2700	0.0100	0.8100	0.1600	0.0000	0.0100	0.0100	0.0000	97.5700	0.0000	0.0000

I Certify that the materials detailed herein have been tested and that documentary evidence of the test or release certificate is on file

Per

Process Leader

From: Copper and Brass Sales  
Cust: THYSSENKRUPP MATERIALS  
Part:  
Wgt: 86.704 LB

NA - ECAD Del: 2401698598  
PO: PEC - 236914  
Date: 02/14/2012



December 14, 2011

RE: Novelis coil L03917B

Aluminum Ingot cast in Canada  
Hot rolling processes performed in USA  
Cold rolling processes performed in Canada

A handwritten signature in cursive script that reads "Troy Reid".

Troy Reid  
Product Metallurgist

Novelis Inc. Kingston Works  
P.O. Box 2000, 1 Lappan's Lane, Kingston Ontario  
K7L 4Z5 Canada

Telephone

+16135412400

Website

[www.novelis.com](http://www.novelis.com)

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698598

Part: PO: PEC - 236914

Wgt: 86.704 LB Date: 02/14/2012

A handwritten signature in cursive script that reads "Rusty D. Welch".

**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN,TEETH,AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO TIN DUST OR IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOUSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.

THIS PRODUCT ALSO CONTAINS LEAD AND CHROMIUM COMPOUNDS.LEAD IS KNOWN TO CAUSE REPRODUCTIVE TOXICITY AND IS A KNOWN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF INTHE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65). IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.READ THE ALUMINUM/ALUMINUM ALLOYS MATERIAL SAFETY DATA SHEET(MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

\* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

\* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

\* Aluminum, in solid form and as contained in finished products presents no special health risk.

\* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).

ALUMINUM LABEL NO.300-1088

ISSUED 10/01/2008





SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
142157	2

BILL TO

Copper & Brass Sales, Inc.

SHIP TO

Copper & Brass Sales, Inc.

Quantity Certified 600 lbs 126 pcs

MANIFEST NUMBER 148891  
CUSTOMER PO 5400129709  
CUSTOMER PART NUMBER ALHEX00223

DIE NUMBER XB1132  
ALLOY / TEMPER 6061-T6511  
DESCRIPTION Hex .625 +/- .005

DATE OF SHIPMENT 1/16/2012  
SALESPERSON Ellis Williams  
CERTIFICATION ASTM-B221-08 No Stencil  
SPECIFICATION AMS-QQA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

## Mechanical Properties

Tests Lot No.  
1 201200371

Test Date 01/12/12  
Ultimate Tensile Strength (KSI) 49.0  
Yield Strength (KSI) 45.9  
Percent Elongation 14.5

Date 2-13-12  
Customer TCM

These Tests are For Material Shipped On  
Your Order 201200371

From Copper And Brass Sales, Inc.  
INVTNO 201200371

WGT PCS  
5.000 126

## Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Total	Melted In
112314	6061	0.72	0.36	0.31	0.10	0.84	0.15	0.06	0.02	0.05	0.15	United States of America

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/23/11 - UMS

Print Date: 1/16/2012

From: Copper and Brass Sales  
Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698041  
Part: PO: PEC - 236914  
Wgt: 5.000 LB Date: 02/13/2012

Rush D. Wiggins

**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

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\* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

\* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

\* Aluminum, in solid form and as contained in finished products presents no special health risk.

\* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).

Certified Inspection Report

09/27/11  
00:25:05

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662  
ALCOA

Customer  
**Copper Brass Sales**  
Ship To **Copper Brass Sales**  
**13338 Orden Dr. Building**  
**Santa Fe Springs, CA 906**

Customer P.O. No.  
**5400112572**

Customer Part No.  
**(ALHGX00038)**

Alcoa Order No.  
**MMC-A0683-020**

Govt Contract No.

Date Shipped **09/26/11** Weight Shipped **2,492 lbs**  
Alloy - Temper **2024-T351** Size **1.37500 IN**

Product **CFRB-SMS-HEX BAR - 12 FT**  
Shape **HEX** Config **12 FT**

BOL **000159735**  
QRR

Thomas J. Klump, Quality Assurance Manager

*Thomas J. Klump*

Specifications:

QQA-225/6E (1)  
AMS-QQA-225/6A  
ASTM B211-03  
AMS 4120R (Except Marking)  
Material conforms to T4 requirements

Product produced and marked to the requirements of AMS-QQ-A-225/6 also meets the requirements of QQ-A-225/6  
Product produced and marked to the requirements of QQ-A-225/6 also meets the requirements of AMS-QQ-A-225/6.

TEST REQUIREMENTS

Test	U.T.S.	T.Y.S.	%Elong	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
Max:													
Min:													

Test Results	No. of Tests	U.T.S.	T.Y.S.	%Elong	Test	Test	Test	Test	Test	Test	Test	Test	Test
Lot / Work Order													
MA011005339	2	Max: 66.1	53.2	19.0									
		Min: 65.4	51.7	19.0									

When 2 or more tests per lot are made, the highest and lowest values are reported.  
Analysis obtained from one or more samples in this lot.

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

Alloy	MAX	MIN	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%AL
2024	0.50		4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	Rem	
			3.8	0.30	1.2							

Actual Started Chemistry

LOT/WORK ORDER	MAX	MIN	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
MA011005339	0.07	0.06	0.27	4.7	0.62	1.5	0.02	0.05	0.02	0.02	LT 0.05	LT 0.15	Rem
			0.24	4.4	0.62	1.4	0.02	0.04					

NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: Copper and Brass Sales  
Cust: THYSSENKRUPP MATERIALS NA - ECAD  
Part: Del: 2401698021  
PO: PEC - 236914  
Date: 02/13/2012  
Wgt: 23.000 LB

*Paul D. Heist*

**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

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IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

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\* Aluminum, in solid form and as contained in finished products presents no special health risk.

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For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).



Aluminium Industry  
Impol d.o.o.  
Partizanska ulica 38  
2310 Slovenska Bistrica  
Slovenija

Tel. : +386 2 8453 100, 8187 521  
Fax. : +386 2 8181 219

Page 9 Pages 15

IMPOL ALUMINUM CORPORATION  
155 ERIE BLVD., 2ND FLOOR  
SCHENECTADY, NY 12305-2235  
UNITED STATES OF AMERICA

Order No.: : 06387800  
Packing list No.: : 27004  
Netto : 42144 lb  
Slovenska Bistrica : 2011-11-17  
MADE IN SLOVENIA

INSPECTION CERTIFICATE  
No.: 27004

Item Product description  
670825 Your order No.: 5400117752  
ALUMINUM COLD FINISH RODS 2024 T351  
LIGHTLY OILED 1.25" RD X 12 FT; ALRD00828 N-ASTMAMSQAAMSN  
Our order No.: 41021/10/1  
Netto: 2032 lb

We acknowledge that listed good correspond to prescribed norm  
ASTM B211-03 AMS-QQ-A-225/6A AMS 4120-R EN 10204/3.1, MERCURY FREE  
what is ascertained with test results:

#### MECHANICAL PROPERTIES

Charge	Lot	Ult.tens.str. ksi	Yield strength ksi	Elongation AS0,8%	Hard.of Br. HB	Erichsen mm	Earing %	Z %	Bend test	Pos.
141826	762	71,9	60,6	11,1	131,0	-	-	-	-	1, 2

BILLETS 100% US TESTED, 100% US TESTED, EDDY CURRENT INSPECTED

#### CHEMICAL COMPOSITION

Charge	Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Zn %	Ti %	Zr %	Al %
141826	0.3658	0.3630	4.1324	0.6131	1.3517	0.0232	0.0267	0.0207	0.0026	93.0397

Country of melt EU / Slovenia  
Country of manufacturing EU / Slovenia

DIRECTOR  
Edvard Slaček



Impol d.o.o.  
Slovenska Bistrica, Partizanska 38

This product is produced in accordance with ISO 9001 Quality system, certificated by Bureau Veritas Certification No. 207590.  
Družba je vpisana v register pri Okrožnem sodišču v Mariboru • Reg. št. vpisa: Srg 96/01315 • Znesek osnovnega kapitala 16,954.598,56 EUR • Matična številka 5040736  
Davčna št.: 45197687

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD

Part:

Wgt: 17.000 LB

Del: 2401698088

PO: PEC - 236914

Date: 02/13/2012

**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION**

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

**"WARNING"**

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ALUMINUM LABEL NO. 300-1056

ISSUED 10/01/2008

Certified Inspection Report

01/06/12  
00:25:19

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Copper Brass Sales**  
Ship To  
**Copper Brass Sales**  
**8001 Thyssenkrupp Parkway**  
**Northwood, OH 43619**

Customer P.O. No.  
**5400122821**

Customer Part No.  
**(ALRD00283)**

Alcoa Order No.  
**MMC-A1453- -020**

Govt. Contract No.

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/TS 16949 registered quality management system. Melted and manufactured in the USA.

Thomas J. Kemp, Quality Assurance Manager

Date Shipped **01/05/12** Weight Shipped **1,963 lbs** Product **CFRB-SMS-ROD DIA. X 12 FT** BOL **000159949**  
Alloy - Temper **2024-T351** Size **1.87500 IN** Shape **DIA** Config **12 FT** QRR

Specifications:  
AMS 4120R (Except Marking)  
AMS-QQA-225/6A  
Material conforms to T4 requirements  
QA-225/6E (1)  
ASTM B211-03

Product produced and marked to the requirements of AMS-QQ-A-225/6 also meets the requirements of QQ-A-225/6. Product produced and marked to the requirements of QQ-A-225/6 also meets the requirements of AMS-QQ-A-225/6.

TEST REQUIREMENTS	Max:	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong									
	Min:	62.0	45.0	10.0									

Test Results	Lot / Work Order	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
			U.T.S.	T.Y.S.	%Elong								
	MA20112140	2	Max: 69.1	52.6	19.0								
			Min: 68.8	52.5	18.0								
	MA20113157	2	Max: 68.6	51.1	20.0								
			Min: 68.5	50.7	20.0								

When 2 or more tests per lot are made, the highest and lowest values are reported.  
Analysis obtained from one or more samples in this lot.

TEST ABBREVIATIONS  
U.T.S. Ultimate Tensile Strength KSI  
T.Y.S. Tensile Yield Strength KSI  
%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)												
ALLOY	MAX	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
		MIN	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05 Each	0.15 Total
2024					3.8	0.30	1.2					

Actual Started Chemistry												
LOTWORK ORDER	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL	
	MAX	0.09	0.27	4.8	0.64	1.5	0.02	0.13	0.02	LT 0.05	LT 0.15	Rem
MA20112140	MIN	0.06	0.24	4.4	0.61	1.4	0.01	0.01	0.02	LT 0.05	LT 0.15	Rem
	MAX	0.10	0.26	4.5	0.66	1.5	0.02	0.03	0.02			
MA20113157	MIN	0.08	0.24	4.4	0.63	1.4	0.02	0.03	0.02			

From: Copper and Brass Sales  
Cust: THYSSENKRUPP MATERIALS NA - ECAD  
Part: PO: PEC - 236914  
Wgt: 40.000 LB  
Date: 02/13/2012  
Del: 2401698085

Page 1  
Paul D. Hest

# Certified Inspection Report

01/09/12  
00:25:19

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Copper Brass Sales**

Customer P.O. No.  
**5400122821**

Customer Part No.  
**(ALRD00283)**

Alcoa Order No.  
**MMC-A1453-020**

Govt. Contract No.

## NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401698085

Part: PO: PEC - 236914

Wgt: 40.000 LB

Date: 02/13/2012

Page 2

*Paul D. White*



**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO16165**

Purchase Order Date 2/10/12

PO Print Date 2/10/12

Page Number 1 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

6/2/2010

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303B1.000X03.000	303 BAR 1" X 3'	2/17/12 No	8.00	Yours ppd <i>C/L 2/2/15</i> NONE	\$58.1250	\$465.00
Special Inst:			MATERIAL: 303 SS BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE				
2	M303R0.250	303 Round Bar 0.250"	2/17/12 Yes	12.00	Yours ppd <i>C/L 2/2/15</i>	\$2.0833	\$25.00
Special Inst:			MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE				
3	M6061T6B2.500X03.500	6061-T6 Bar 2.50 x 3.50	2/17/12 Yes	8.00	Yours ppd <i>C/L 2/2/15</i>	\$22.0400	\$176.32

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12

Change Nbr: 1

Change Date: 2/10/12

Fax: 613 632 1055

PO Print Date 2/10/12

Page Number 2 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

4	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	2/17/12 Yes	12.00 f	Yours ppd 12/2/15	\$14.3500	\$172.20
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Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

5	M6061T6B0.500X02.000	6061-T6 Bar .500 x 2.00	2/17/12 Yes	24.00 f	Yours ppd 12/2/15	\$2.4600	\$59.04
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Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

6	M60610S.032	6061 0 SHEET .032	2/17/12 No	192.00 sf	Yours ppd 12/4/23	\$1.3542	\$260.00
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consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16165

Purchase Order Date 2/10/12

PO Print Date 2/10/12

Page Number 3 of 5

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Special Inst:

MATERIAL: 6061-OS ALUMINUM SHEET  
AS PER AMS-QQ-A-250/11 OR AMS 4025

M6061T6R2.000 6061T6 ROUND BAR 2.00 2/17/12 12.00 Yours ppd \$7.6700 \$92.04  
Yes f

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

M6061T6R3.500 6061 RD bar 3.50 2/17/12 12.00 Yours ppd \$23.5000 \$282.00  
Yes f

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

M6061T6R0.375 6061-T6 Round Bar .375" 2/17/12 24.00 Yours ppd \$1.0417 \$25.00  
Yes f

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consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 2/10/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16165

Purchase Order Date 2/10/12

PO Print Date 2/10/12

Page Number 4 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

10 M6061T6H0.625 6061-T6 HexBar .625

2/17/12

Yes

12.00

f

Yours ppd

\$3.7500

\$45.00

Special Inst:

MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
HEX BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-200/8  
OR AMS 4117  
4128/4115/4116 OR QQ-AA-200/8 OR  
AMS-QQ-A-200/8 OR AMS 4160 OR  
ASTM B221 OR ASTM B221

11 M2024T3H1.375 2024-T3 Hex Bar 1.375"

2/17/12

Yes

12.00

f

Yours ppd

\$17.2500

\$207.00

Special Inst:

MATERIAL: 2024-T3/T3511  
HEXAGONAL ALUMINUM BAR  
AS PER AMS-QQ-A-200/3 OR AMS  
4152/4164/4165

12 M2024T3R1.250 2024-T3 Round Bar 1.250"

2/17/12

Yes

12.00

f

Yours ppd

\$8.2500

\$99.00

Change Nbr:

1

Change Date: 2/10/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO16165

Purchase Order Date 2/10/12

PO Print Date 2/10/12

Page Number 5 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 2024-T3/T3510/T3511  
ALUMINUM ROUND BAR  
AS PER AMS-QQ-A-200/3 OR AMS  
4152/4164/4165

13 M2024T3R1.875

2024 T3 ROUND BAR  
1.875

2/17/12

12.00 Yours ppd

\$15.8700

\$190.44

Yes

f

*16M/23*

Special Inst:

MATERIAL: 2024-T3/T3510/T3511  
ALUMINUM ROUND BAR  
AS PER AMS-QQ-A-200/3 OR AMS  
4152/4164/4165

PO Total:

\$2,098.04

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

Change Nbr: 1

Change Date: 2/10/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable